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COAL

* INTERIM GUIDELINES FOR THE CALCULATION OF CROWN ROYALTY ON MARKETABLE COAL AND OTHER PRODUCTS EFFECTIVE JULY 1, 1976 (1976, 10pp). Guidelines to assist industry with the requirements of the Coal Royalty Regulations.

ENERGY CONSERVATION

ENERGY EFFICIENT HOUSING — A PRAIRIE APPROACH (1980, 31pp ., illus., tables). A construction guide for building an energy-efficient house, produced in conjunction with Saskatchewan Mineral Resources and Manitoba Department of Energy and Mines.

I ENERGY EFFICIENT HOUSING SYMPOSIUM (1981, 136pp., illus., tables). Proceedings of the symposium held November 24-26, 1980, Edmonton, Alberta.

OIL SANDS AND HEAVY OILS

* ALBERTA OIL SANDS FACTS AND FIGURES (1979, 67pp., illus. tables). Complete to December 31, 1978, a report on the disposition of lands in the major oil sands deposits of Alberta, and reserves data.

PETROLEUM AND NATURAL GAS

* CANADIAN ASSOCIATION OF PETROLEUM PRODUCTION ACCOUNTING: LOW PRODUCTIVITY SEMINAR: CALGARY INN, CALGARY (1978, 17pp.). A summary of data presented by Alberta Energy and Natural Resources.

* CONVERSION OF THE NATURAL GAS AND PENTANES ROYALTY FORMULAE TO SI(METRIC) UNITS FOR ROYALTY CALCULATIONS AND VERIFICATION PURPOSES (1979, 4pp.). The conversion for calculating Crown royalty on natural gas and associated by-products.

* CONVERSION OF THE PETROLEUM ROYALTY FORMULA SI (METRIC) UNITS FOR ROYALTY CALCULATION AND VERIFICATION PURPOSES (1979, 5pp.). The conversion for calculating Crown royalty on conventional crude oil production.

† DIAMOND DRILL CORE SELECTION AND STORAGE PROGRAM (1982, 25pp.). An outline providing information and guidelines to the mineral resources industry and interested parties (Subcommittee Meeting of Provincial Geologists).

† GUIDELINES FOR THE CALCULATION AND REPORTING OF NATURAL GAS AND ASSOCIATED BY-PRODUCTS ROYALTY (1979, 136pp.). Guidelines to assist industry with the requirements of the Natural Gas Royalty Regulations.

* INTERIM GUIDELINES FOR THE ADMINISTRATION OF SECTION 4.2 OF THE PETROLEUM ROYALTY REGULATIONS EFFECTIVE JANUARY 1, 1977 (amended June 19, 1979). Guidelines to assist industry in interpreting the regulations.

* NEW GAS ROYALTY REPORTING SYSTEM EFFECTIVE JANUARY 1979 PRODUCTION: CALGARY CONVENTION CENTRE: FEB. 6, 7, 8, 1979 (1979, 60pp.). Summary of data presented by Alberta Energy and Natural Resources at the seminar.

‡ A PRELIMINARY INVESTIGATION OF THE EFFICIENCY OF OILFIELD LINE HEATERS AND TREATERS — R. Sukovieff (1979, 120pp., illus., tables). An examination of current efficiency and an evaluation of 12 efficiency-enhancing modifications.

‡A A REVIEW OF COMPATIBILITY PROBLEMS IN THE JOINT USE OF CORRIDORS BY PIPELINES AND POWERLINES — L. James (1981, 20pp., illus.).

POLICY AND LEGISLATION

ALBERTA ENERGY STATUTES AND REGULATIONS (binder). Prices: original set and first year of updating - $20.00 (pre-paid); yearly subscription for updating - $20.00/year (invoiced).

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*A COAL DEVELOPMENT POLICY FOR ALBERTA (1976, 47pp.). A statement of the policy and its elements, as well as the administrative procedures concerning individual coal development proposals. NOTE: A revised policy will be available in mid-1982.

† ENERGY RESOURCES INFORMATION LETTERS (1974 to present, serial). Letters, issued irregularly, clarifying energy legislation and offering other policy communications and directives of interest to industry. (An index to the letters is available on request.)

‡ OIL AND GAS TENURE LEGISLATION AND PRACTICE IN THE PROVINCE OF ALBERTA: APRIL 1977. An explanation of the administration of the then-new legislation dealing with the land tenure system.

‡ SUMMARY OF ALBERTA LEGISLATION: PETROLEUM AND NATURAL GAS: TO DECEMBER 31, 1977 (n.d., 20pp.). An overview and interpretation of legislation in effect during 1977.

UNCONVENTIONAL ENERGY SOURCES

‡ ENERGY AND CHEMICALS FROM WOOD (1979, 55pp., illus., tables). A review of current technology and a feasibility study use in Alberta.

‡ PROPANE AS AN ALTERNATIVE TRANSPORTATION FUEL IN ALBERTA: FINAL REPORT — IBI Group Consultants (1980, 92pp., illus., tables). Consultant's report on the potential in Alberta for the use of propane.

* PROSPECTS FOR SOLAR AND WIND ENERGY UTILIZATION IN ALBERTA (1978, 101pp., illus., tables). A report reviewing solar and wind energy resources and evaluating the application in Alberta.

FISH

ACQUACULTURE

† GAME FISH FARMING IN ALBERTA — B.A. Barton and A.J. Chamberlain (1981, 24pp., maps, illus.). Guidelines for fish farmers, and a summary of common problems in trout farming.

GENERAL

‡ COMPETITIVE FEEDING HABITS OF RAINBOW TROUT, WHITE SUCKER, AND LONGNOSE SUCKER IN PAINE LAKE, ALBERTA — B.A. Barton and B.R. Bidgood (1980, 27pp., illus., tables). A study comparing the food habits of trout and suckers during summer.

‡ KANANASKIS COUNTRY FISH AND WIDLIFE BIBLIOGRAPHY: PLANNING DOCUMENT NO. 1 — D.L. Pachal and J. Van Camp (1979, 60pp.). Citations on the fish and wildlife resources and development potential of Kananaskis Country.

‡ PHYSIOLOGICAL STRESS IN FISH: A LITERATURE REVIEW WITH EMPHASIS ON BLOOD CORTISOL DYNAMICS — B.A. Barton and L.T. Toth (1980, 18pp.).

‡ POPULATION DYNAMICS, AGE, AND GROWTH OF RAINBOW TROUT (SALMO GAIRDNERI) AND DOLLY VARDEN (SALVELINUS MALMA) IN THE TRI-CREEK WATERSHED, 1971 to 1977: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 2 — G.L. Sterling (1978, 86pp., illus., tables). A report on the species present, including Rainbow Trout and Dolly Varden estimates and growth patterns, the annual age structure of populations, length-weight relationships, and the sex ratios of rainbow trout.

LAKE AND STREAM INVENTORIES AND EVALUATIONS

‡ BIOLOGICAL SURVEY OF GULL LAKE: 1969 — M.E. Kraft (1977, 54pp., illus., tables). A study of fish populations and the limnology of Gull Lake.

‡ BIOLOGICAL SURVEY: WAPITI RIVER 1970-74 — P. Paetkau and F. Bishop (n.d., 28pp., illus., tables). A report on the river's biological condition, determined from samples of the benthic fauna and fish, before the establishment of a pulp mill.

‡ THE COMPOSITION AND STANDING CROP OF BENTHIC INVERTEBRATE COMMUNITIES OF NINE STREAMS IN THE LIVINGSTONE DRAINAGE DISTRICT OF ALBERTA — D.S. Radford (1977, 15pp., illus., tables). A determination in 1973 of the benthic invertebrate communities of the Oldman and Livingstone Rivers and the Ridge, Coat, Isolation, Savanna, Honeymoon, Slacker, and Pasque Creeks.

‡ THE FISH SPECIES COMPOSITION AND DISTRIBUTION IN NINE STREAMS IN THE LIVINGSTONE DRAINAGE DISTRICT OF ALBERTA — D.S. Radford (1974, 12pp., illus., tables).

‡ FISHES OF ABRAHAM LAKE (RESERVOIR) AND THE UPPER NORTH SASKATCHEWAN RIVER — C.D. Tebby (1974, 87pp., illus., tables). A study, from 1972 to 1974, of the aquatic fauna.

‡ HABITAT SURVEYS OF SCALP, BIGHORN, EAGLE, WILDHORSE, YARA, McCUE, WIGWAM, UNNAMED, SHEEP, AND DOGRIB CREEKS: 1972/73 — L. Fitch (1975, 68pp., illus., maps, tables). An inventory and assessment of the waters.

† MIGRATORY BEHAVIOR OF THE MAJOR SALMONID FISHES, RAINBOW TROUT, DOLLY VARDEN CHAR AND MOUNTAIN WHITEFISH IN THE TRI-CREEK WATERSHED, 1969 to 1978: THE TRI-CREEKS WATERSHED REPORT NO. 6 — G.L. Sterling (1980, 64pp., illus., tables). The spawning and movements of three species in the McLeod River and Wampus Creek.

‡ PRELIMINARY FISHERIES SURVEY OF THE WINEFRED-PELICAN AREA — W.E. Griffiths and D.B. Ferster (1974, 449pp., illus., tables). The results of a 1973 survey, combined with data from 1949, 1957, and 1969, on eleven major watersheds and two minor watersheds. Fish populations, bottom fauna, chemical and physical water quality, and a classification of waters by their sports fishing potential are covered.

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‡ PRELIMINARY SURVEYS OF SULPHUR AND CUTBACK LAKES — PEACE RIVER REGION — F. Bishop (n.d., 23pp., illus., tables). The results of lake surveys done in 1969.

† THE RAINBOW TROUT POPULATIONS (SALMO GAIRDNERI, RICHARDSON) AND OTHER FISH OF THREE STREAMS IN THE FOOTHILLS OF ALBERTA — K.G. Dietz (1971, 71pp., maps, illus., tables). Descriptive features of rainbow trout populations in headwater tributaries, and discussion of the possible effects of clearcut logging.

‡ SUMMARY REPORT: BIOLOGICAL POLLUTION SURVEYS: OLDMAN RIVER, BOW RIVER, RED DEER RIVER, NORTH SASKATCHEWAN RIVER — P. Paetkau:

- 1969-70
- 1970-71

Investigation of the pollution status of the rivers.

‡ SURVEY OF THE FISH POPULATION AND HABITAT IN FALLENTIMBER CREEK, 1973-74 — L. Fitch (1977, 39pp., illus., tables). A survey of the habitat conditions and fish populations.

† A SURVEY OF THE FISH POPULATION AND HABITAT IN PRAIRIE CREEK, 1974-1975 — L. Fitch (1981, 54pp., maps, illus., tables). A description of stream habitat characteristics, water quality, benthic invertebrates, fish species, population size, and age and growth characteristics of fish.

† TOLERANCE OF RAINBOW TROUT TO DIRECT CHANGES IN WATER TEMPERATURE — B.F. Bidgood (1980, 10pp., tables). A study of the effect of increasing water temperatures on the mortality of four sizes of rainbow trout.

‡ WATER QUALITY CHARACTERISTICS OF NINE STREAMS IN THE LIVINGSTONE DRAINAGE DISTRICT OF ALBERTA — D.N. Griffith (1975, 28pp., illus., tables). Results of a 1973 Study into the water quality of the Oldman and Livingstone Rivers and seven tributaries, in order to assess the possible effect of a future strip-mining operation.

‡ THE WATER QUALITY OF SOME COAL MINE EFFLUENTS AND THEIR EFFECT ON STREAM BENTHOS AND FISH — D.S. Radford and D.N. Graveland (1978, 58pp., illus., tables).

MANAGEMENT

‡ AN EVALUATION OF ALBERTA'S FISHERY MANAGEMENT PROGRAM FOR EAST SLOPE STREAMS — D.S. Radford (1977, 66pp., illus., tables). Results of census studies conducted to evaluate policy to ensure adequate natural reproduction of cutthroat trout and permit them to reach a desirable size for the creel.

† FIELD SURGICAL PROCEDURE FOR IMPLANTATION OF RADIO TAGS IN FISH — B.F. Bidgood (1980, 9pp., tables). Equipment and methods used for implanting tags in the field.

‡ STREAMBANK PROTECTION IN ALBERTA — R. Makowecki (1980, 29pp., illus.). A review of the loss of fish habitat and declining water quality from livestock grazing, and a description of the methods used in the "Buck for Wildlife" Program to maintain, improve, and develop wildlife and fisheries habitats.

‡ THE TROPHY PIKE OF SEIBERT LAKE (CONDENSED VERSION) — R. Makowecki (1973, 46pp., illus., tables). The study of a trophy lake to discover factors which affect a trophy fishery resource and to recommend practices to manage and enhance this resource.

‡ TROUT STOCKING IN STREAMS: A REVIEW — L.A. FITCH (1977, 24pp.). A review of recent literature on the survival of stocked trout, the yield effect of stocking on resident populations, and recommendations for stocking based on these findings.

RECREATIONAL AND COMMERCIAL FISHING

‡ CHARACTERISTICS OF SOME CANADIAN SHIELD LAKES IN ALBERTA — L.A. Rhude (1977, 109pp., illus., tables). A report collecting and organizing data on 49 lakes previously surveyed in the shield region. For each lake, there is a bathymetric map, resume of physical, chemical, and biological features, and a rating for sport fishery potential.

‡ CHARACTERISTICS OF THE LAKES AND PONDS WITHIN THE EDMONTON AREA — L.A. Rhude (1979, 55pp., illus.). Data on 67 lakes, including a rating for sport fishing.

‡ THE HARVEST OF LAKE STURGEON (ACIPENSER FULVESCENS) IN THE SOUTH SASKATCHEWAN RIVER FROM 1968 TO 1972 — D.S. Radford (1972, 19pp., illus., tables). Results of a sturgeon-angling questionnaire assessing the anglers and various aspects of the harvest, such as the use of minnows as bait.

‡ THE IMPACT OF THE UNLICENCED ANGLER ON THE SPORTS FISHERY IN ALBERTA — J.E. Carss, C.E. Stenton and E.J. Psikla (1978, 20pp., tables). The results and recommendations of a three-year study into the number of unlicenced anglers, their fishing habits, and their catch.

‡ POTENTIAL IMPACT OF A SMALL MESH FISHERY ON A LAKE WHITEFISH POPULATION — K.A. Zelt (1977, 14pp., illus., tables).

† PROCURING AND TRANSPORTING WALLEYE EGGS FROM REMOTE LOCATIONS TO A CENTRALIZED HATCHERY — B.F. Bidgood (1980, 20pp., maps, illus., tables). A report testing and comparing techniques for spawning, hardening, and transporting walleye eggs from an isolated location to a hatchery.

‡ REPORT OF THE SELECT COMMITTEE ON RECREATIONAL AND COMMERCIAL FISHING INDUSTRIES IN ALBERTA (1980, 61pp.). A review of policies, legislation, and public opinions on the management of Alberta's fishery resource, for consideration by the Legislative Assembly.

FOREST

GENERAL

‡ BIOGEOCLIMATIC ZONES OF SOUTHWESTERN ALBERTA — S. Kajima (1980, 68pp., illus., tables). Refinements to the biogeoclimatic classification of forests in Alberta.

‡ ECOLOGY OF SELECTED WOODY PLANT SPECIES: A BIBLIOGRAPHY — R.W. Parker (1979, 92pp.). Listings on 25 different woody plant species from a search of the English ecological literature.

† FOREST DEVELOPMENT RESEARCH TRUST FUND: ANNUAL REPORT 1979-80 (1981, 16pp.). The objectives and progress of projects sponsored by the fund during the fiscal year.

‡ FOREST STATISTICS REVIEW:
- 1976-77
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Statistical reports on Alberta forests and forest industries.

‡ GERMINATION REQUIREMENTS AND EFFECT OF SEED WEIGHT ON GERMINATION AND EARLY SEEDLING DEVELOPMENT OF ALBERTA LODGEPOLE PINE — B. Wang (1979, 26pp.).

‡ HYDROLOGIC SIMULATION OF TRI-CREEKS WATERSHED: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 4 — N. Stevens (1980, 25 pp., maps, illus., tables). A description of a model developed and used to evaluate the effect of land use on the water cycle.

‡ LAND CAPABILITY CLASSIFICATION FOR FORESTRY, ALBERTA LAND INVENTORY — J.H. Archibald, T.R. Bossenberry, Z.T. Nemeth, R.C. Shelford, J.E. Przeczek (1979, 41pp., illus.). A final report on the methods used to assess and rate land for forest productivity in the Canada and Alberta Land Inventory Programs.

‡ LAND CAPABILITY CLASSIFICATION FOR FORESTRY IN ALBERTA, CANADA LAND INVENTORY — J.R. Prokopchuk and J.H. Archibald (1976, 81pp., illus.). An interim report on the methods used to assess and rate land for forest productivity as part of the Canada Land Inventory Program.

* MESOCLIMATE OF THE TRI-CREEKS REGION: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 3 — P.D. Jablonski (1978, 14pp., illus., tables). A summary of the variations in temperature and precipitation in Tri-Creeks during the pre-treatment phase of the study, 1967-77.

* MOUNTAIN PINE BEETLE SYMPOSIUM, COLEMAN, ALBERTA, FEB. 6-7/81 (proceedings, 1982, 94pp., tables). Proceedings of a symposium sponsored by the Alberta Forest Service, Canadian Forestry Service, and Canadian Institute of Forestry.

* PRETREATMENT WATER QUALITY OF THE TRI-CREEKS WATERSHED STUDY REPORT NO. 7 — P.D. Jablonski (1980, 56pp., illus., tables). Results of the pre-treatment physical, chemical, and thermal water quality of the Tri-Creeks experimental watershed.

‡ SEED YIELD AND GERMINATION REQUIREMENTS OF ALBERTA WHITE SPRUCE AND LODGEPOLE PINE — B. Wang (1978, 26pp.).

* STREAM FLOW CHARACTERISTICS AND CALIBRATION OF THE TRI-CREEKS SUBWATERSHED (1968-1977): THE TRI-CREEKS WATERSHED STUDY REPORT NO. 5 — G.P. Bergstrom (1980, 24pp., illus.). A compilation and analysis of stream flow data over ten years.

‡ THE TRI-CREEKS WATERSHED: A STUDY INTO THE EFFECTS OF LOGGING ON THE PHYSICAL, CHEMICAL, AND BIOTIC CONDITIONS OF THREE ALBERTA EASTSLOPE STREAMS: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 1 — P.D. Jablonski (1978, 35pp., illus., tables). An inventory, at the pre-treatment stage, of the geology, soils, topography, climate, and biology typical of the high elevation lodgepole and spruce forests of the northwestern Alberta foothills.

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* FIRE TEMPERATURES IN GRASS, SHRUB AND ASPEN FOREST COMMUNITIES OF CENTRAL ALBERTA — A.W. Bailey and M.L. Anderson (1980, 4pp. illus., tables). A report on fire temperatures associated with headfires, backfires, and with various fuels in grass, shrub, and forest plant communities. (Reprinted from **Journal of Range Management.**)

FOREST FIRE CONTROL

† AIR TANKERS IN ALBERTA — C.S. McDonald (1976, 42pp., illus., tables). A review of the fixed-wing Air Tanker Program of the Alberta Forest Service.

† AIRCRAFT SPECIFICATIONS MANUAL (1981, 58pp., illus.). A manual for department staff, to assist in selecting the best aircraft for a forestry job.

† CALIBRATION AND PERFORMANCE OF THE CANADIAN FIRE WEATHER INDEX IN ALBERTA — A.D. Kiil, R.S. Miyagawa, and D. Quintilio (1977, 45pp., illus., tables). A study calibrating and evaluating the reliability of the Fire Weather Index tables.

‡ DELPHI: AN EXPERIMENT TO STUDY THE POTENTIAL OF ADVERTISING IN REDUCING FOREST FIRES — M.J. Dunn, B.M. Harnden, and J.D. Newton (1974, 91pp., illus., tables). A study to assist the Alberta Forest Service in allocating the fire prevention budget.

‡ FIRE INCIDENCE: 1961-1970 — R.S. Miyagawa (1974, 28pp., illus., tables). An analysis of fire data.

‡ FIRE PLANS MANUAL: FIRE DETECTION (1976, 20pp., illus.).

‡ FIRE PLANS MANUAL: FIRE PREVENTION (1975, 51pp.).

‡ FIRE SIZE: 1961-70 — R.S. Miyagawa (1974, 25pp., illus., tables). An analysis of the data.

‡ FIRELINE RATIONS MANUAL (1973, 32pp.). Guidelines for ordering food supplies.

‡ FOREST FIRE MANAGEMENT: FOREST TECHNOLOGY REFERENCE TEXT (1980, 71pp., illus., tables). For forestry students, an overview of the roles and activities associated with fire management, such as prevention, detection, suppression, prescribed burning, and the environmental effects of fires.

‡ MAN-CAUSED FIRES: 1961-1975 — R.S. Miyagawa (1976, 65pp., illus., tables). A discussion of the upward trend in fires caused by humans, and recommendations for the Alberta Forest Service in dealing with this problem.

‡ PROBLEM FIRES: 1970-74 — R.S. Miyagawa (1975, 53pp., tables). An analysis of fires covering more than 500 acres, and recommendations for the Alberta Forest Service.

FOREST INDUSTRY

† ALBERTA FOREST INDUSTRY DEVELOPMENT PROSPECTS (1977, 193pp., tables). A report by consultants on forestry and the forest industry in Alberta, recommending a development strategy and the impact it would have on the province.

‡ ALBERTA'S FENCE POST INDUSTRY: 1970-74 - B. Karaim (1975, 33pp., illus.). A review of the state of the industry, including a list of the industries in Alberta.

‡ ALBERTA'S RAILWAY CROSSTIE INDUSTRY: 1970-76 - B.W. Karaim (1977, 24pp., tables). A study of the industry.

* A DIRECTORY OF PRIMARY WOOD-USING INDUSTRIES IN ALBERTA: 1979 - W.J. Ondro, B.W. Karaim, R.A. Bohning, and G.R. Stevenson (1980, 292pp., maps, tables). Results of a survey of sawmills, planing mills, plywood mills, wood treating plants, and pulp, paper, and paperboard mills. Mill location, ownership, capacity, wood supply, current production and employment, products, markets, marketing agents, woodlands equipment, and mill facilities are given.

† LUMBER AND PANEL PRODUCTS IMPORTED INTO THE CALGARY AREA IN 1976 (1978, 42pp., tables). A market survey of the Calgary area considering domestic consumption, types of products, prices, end-users, origin of products, and methods for shipping products.

* PUBLIC HEARINGS ON PROPOSED TIMBER DEVELOPMENTS: BERLAND-FOX CREEK AREA, GRAND CACHE, JULY 16, 17, 19, 20, 1970: VOL. I and II. (1979, 444pp. and 556pp.).

† SUPPLY AND DEMAND UTILITY POLES IN ALBERTA - B. Karaim (1975, 29pp., illus.). Compiled statistics for 1970-1974, including a list of producers.

FOREST MANAGEMENT

THE ENVIRONMENTAL EFFECTS OF TIMBER HARVESTING IN ALBERTA: VOL. I and II (1973). Prices: project reports (2 volumes) — $10.00: map and overlays — $10.00.

‡ A TENTH-YEAR REVIEW OF STAND RENEWAL UNDER THE QUOTA SYSTEM OF TIMBER MANAGEMENT IN ALBERTA — D. Crossley (1977, 79pp.).

† TIMBER HARVEST CUT BLOCK DESIGN — C. Henderson (1977, 38pp., illus., tables). A manual on the planning and harvesting ground rules for cut block design, considering the influence of wind, wildlife, silviculture, controlled burning, watershed management, aesthetics, and harvesting.

REFORESTATION

Also see: LAND — Reclamation

† ALBERTA FOREST REGENERATION SURVEY MANUAL (1979, 43pp.). A manual presenting a systematic and standard approach for determining stocking of desired tree species on cut-over or other denuded lands.

* CONTAINERIZED SEEDLING PROCESSING SYSTEM (PINE RIDGE FOREST NURSERY) — H.R. Winn and W. Dubbeldam (1981, 12pp., illus.). A description of equipment used in growing containerized seedlings at the nursery.

* PINE RIDGE FOREST NURSERY (1980, 18pp., illus.). Background about the construction of the nursery and information on its various functions such as seed extraction, cleaning and storage, container seedling production, bareroot seedling production, and research.

‡ SCARIFICATION FOR REFORESTATION (booklet, 1977, 72pp., illus.). A manual for forest managers, to develop prescriptions for preparing forest sites for reforestation.

LAND

GENERAL

* PLAN REQUIREMENTS FOR FINAL PLANS SUBMITTED BY GAS CO-OPS IN SUPPORT OF PIPELINE AGREEMENT APPLICATIONS (1977, information sheet). A guide to the information which must be indicated on plans submitted by gas co-ops.

* REQUIREMENTS FOR PLANS FOR LICENCE OF OCCUPATION (1977, information sheet). An outline of plans required by the department in support of licence of occupation applications involving public lands.

* REQUIREMENTS FOR SURVEY PLANS (1977, information sheet). Details of survey plans required by the department, covering industrial and mineral developments on public lands (surface lease dispositions).

‡ THE ROUTE SELECTION PROCESS: A BIOPHYSICAL PERSPECTIVE (1980, 36pp., illus., tables). An examination of five methods for selecting a linear route.

† THE ROUTE SELECTION PROCESS: ENVIRONMENTAL APPROACHES: SEMINAR PROCEEDINGS (1981, 79pp.).

RANGE

‡ FORAGE PRODUCTION ON SELECTED NATIVE PRAIRIE SITES IN SOUTHERN ALBERTA — S.G. Klumph, A. Johnson, B. Schuler, S. Smoliak, and R. Wroe (1979, 36pp.). Results of forage clipping studies on selected native range sites and the basis for determining stocking rates.

‡ RANGE: A SELECTED BIBLIOGRAPHY OF RESEARCH AND INFORMATION (1975, 201pp.). A listing of publications related to range research and livestock production on range or pasture.

* RANGE MANAGEMENT — G. Maduram (1980, 106pp.). A reference for field staff, covering management, improvements, poisonous plants, range grasses, and range condition surveying.

‡ SITE CLASSIFICATION FOR GRAZING (1981, 8pp.). A description of sites used to classify range types.

RANGE RESEARCH

* ADAPTATIVE TRIAL AT PRAIRIE CREEK, CLEARWATER-ROCKY FOREST — G. Stuart (1974, 7pp.). The results of grass trials for grazing.

* ADAPTIVE TRIAL WITH ARCTIC FESCUE AT HIGH LEVEL ALBERTA: FOOTNER LAKE FOREST — T.K. Thompson (1974, 6pp.). The results of a trial on the adaptability of arctic fescue for grazing.

† DISTRIBUTION, ECOLOGY, AND MANAGEMENT OF FREE-RANGING HORSES IN ALBERTA — R. Salter (1978, 33pp.).

* EFFECT OF FIRE ON A SYMPHORICARPOS OCCIDENTALIS SHRUB COMMUNITY IN CENTRAL ALBERTA — M.L. Anderson and A.W. Baily (1979, 5pp., tables). Report on the response of a western snowberry plant community to fire. (Reprinted from the **Canadian Journal of Botany**.)

‡ GRASS TRIAL FOR RANGE IMPROVEMENT AND EROSION CONTROL AT DIXONVILLE, ALBERTA, PEACE RIVER FORST — S. Beebe and B. Johnson (1973, 7pp.). The results of a seeding trial using creeping red fescue, timothy, crested wheat-grass, and Kentucky bluegrass.

* HOW TO COLLECT PLANTS AND PREPARE A HERBARIUM — G. Maduram (1979, 27pp.).

* PRESCRIBED BURNING OF A FESTUCA-STIPA GRASSLAND — A.W. Bailey and M.L. Anderson (1978, 4pp. tables). Report on the response of the plant community to fire. (Reprinted from the **Journal of Range Management**.)

‡ SUMMARY OF RANGE IMPROVEMENT EXPERIMENTS AND TRIALS IN THE FOREST AREAS OF ALBERTA — G. Maduram (1975, 39pp.). A review of the trails conducted by department staff.

‡ TRIALS FOR RANGE IMPROVEMENT IN THE GRANDE PRAIRIE FOREST — D.E. Schenk (1974, 15pp.). A description of the grass trials conducted.

KEY TO AVAILABILITY

* One copy on request.

† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library

‡ Out of print. May be viewed in the ENR library.

RECLAMATION

Also see: FOREST - Reforestation

† THE CADOMIN RECLAMATION RESEARCH PROJECT: FIRST YEAR RESULTS: 1978 — W. Russell and S. Takyi (1978, 44pp., illus., tables). The results of the first growing season of reclamation experiments established on an abandoned coal strip-mine.

† THE CADOMIN RECLAMATION RESEARCH PROJECT: SECOND YEAR RESULTS: 1979 — W.B. Russell and S.K. Takyi (1980, 54pp., illus., tables). The results of the second growing season of reclamation experiments established on an abandoned coal strip-mine.

† INFLUENCE OF ROLL-OUT MATS AND RIDGING ON THE ESTABLISHMENT OF PLANT COVER ON AN UNAMENDED COAL SPILL: A PROGRESS REPORT FOR:

- 1979 — S. Takyi (1980, 42pp., illus., tables).
- 1980 — S. Takyi and R.H. Letich (1981, 26pp., illus., tables).

† METHODS OF ESTABLISHING NATIVE GRASSES ON COAL OVERBURDEN: FIRST YEAR RESULTS (1980) — S.K. Takyi (1981, 22pp., illus., tables). Progress report of an experiment to establish a native grass seed mix on an abandoned open-pit coal mine site southeast of Cadomin.

† NATIVE GRASS AND CULTIVATED GRASS-LEGUME SEED MIXTURE TRIALS ON SUBALPINE COAL-MINED DISTURBANCES IN ALBERTA — H. Tomm and W. Russell (1980, 41pp., illus.). A progress report.

‡ NATIVE GRASS RECLAMATION RESEARCH: CONTAINER PLANTINGS IN THE EASTERN SLOPES OF ALBERTA — W. Russell (1979, 34pp.).

‡ PROGRESS REPORT ON A PROGRAMME TO SELECT AND EVALUATE NATIVE TREES AND SHRUBS FOR RECLAMATION IN THE ROCKY MOUNTAIN EASTERN SLOPES OF ALBERTA — P.J. King (1980, 5pp.).

† THE RESOURCE HANDBOOK (1979, 85pp., illus.). Guidelines for resource protection, of concern to industries involved with surface-disturbing operations on forested lands.

† REVIEW OF SEED PRETREATMENTS REQUIRED FOR GERMINATION OF CANDIDATE NATIVE TREE AND SHRUB SPECIES IN THE EASTERN SLOPES OF THE ROCKY MOUNTAINS AND FOOTHILLS OF ALBERTA — P. King (1980, 56pp.).

* SUMMARY OF CURRENT RECLAMATION STUDIES (1981, 26pp.). A summary of field studies underway by the Reforestation and Reclamation Branch of Alberta Energy and Natural Resources.

† SURVEY OF NATIVE TREES AND SHRUBS ON DISTURBED LANDS IN THE EASTERN SLOPES — W.B. Russell (1979, 38pp.). A report showing native trees and shrubs as potentially useful plant materials for reclamation in Alberta.

RESOURCE MANAGEMENT

Also see: FISH - Management
FOREST - Management
WILDLIFE - Management

GENERAL

† MANAGEMENT ISSUES FOR PRIORITY AREAS WITHIN SLAVE LAKE FOREST — D. Darrah and P. Short (1977, 19pp., illus.).

NATURAL RESOURCES INFORMATION DIRECTORY: 1982 (1982, 284pp., maps). An index for identifying and accessing natural resource and land information on Alberta. Price: $5.00 for non-government agencies. (Can be invoiced.)

‡ A POLICY FOR RESOURCE MANAGEMENT OF THE EASTERN SLOPES (1977, 19pp., illus.). (Temporarily out of print.)

INVENTORIES AND EVALUATIONS

Also see: FISH - Lake and Stream Inventories

† BIOPHYSICAL ANALYSIS AND EVALUATION OF CAPABILITY:

- BLUEBERRY MOUNTAIN AREA — C. Van Waas (1978, 46pp., maps)
- CASTLE RIVER AREA — H. Anderson (1978, 72pp., maps)
- CLEAR RIVER AREA — L.K. Brocke (1976, 52pp., maps)
- COLD LAKE AREA — P.M. Ojamaa (1978, 46pp., maps)
- DIXONVILLE AREA — C. Van Waas (1977, 30 pp., maps)
- FORT ASSINIBOINE — E. Boyacioglu (1975, 31pp., maps)
- HIGH LEVEL — P. Kumar (1977, 47pp., maps)
- LA CRETE AREA — T.F. Cameron (1977, 47pp., maps)
- LAKELAND AREA — W.L. Strong (1978, 35pp., maps)
- LITTLE SMOKY AREA — P.M. Ojamaa (1978, 28pp., maps)
- ROCHESTER AREA — P. Kumar (1976, 26pp., maps)
- STURGEON LAKE AREA — E. Boyacioglu (1977, 30pp., maps)
- WHITECOURT AREA — C. Van Waas (1978, 39pp., maps)
- WHITEMUD HILLS — C. Van Waas (1977 32pp., maps)

Reports and accompanying maps classifying land area by ecological (biophysical) parameters. The classification is the basis for land-use evaluations (presented by a system of land-use capability ratings).

† ECOLOGICAL LAND CLASSIFICATION AND EVALUATION:

- BRAZEAU-PEMBINA — K. Dutchak (1981, 66pp., maps, illus., tables)
- CACHE PERCOTTE AREA — H.G. Anderson (1980, 43pp., map)
- CARCAJOU STUDY AREA — K.L. Dutchak (1979, 49pp., maps)
- GHOST RIVER STUDY AREA — C.M. McGregor (1979, 64pp., maps)
- HIGHWOOD-SHEEP — H.G. Anderson (1979, 63pp., maps)
- JEAN D'OR PRAIRIE — W.L. Strong (1981, 60 pp., maps, illus., tables)
- LIVINGSTONE-PORCUPINE — W.L. Strong (1979, 89pp., maps)
- SWARTZ LAKE — W.L. Strong (1980, 40pp., maps, tables)

Reports and accompanying maps classifying land areas by ecological (biophysical) parameters.

* ECOREGIONS OF ALBERTA — W.L. Strong and K.R. Leggat (1981, 64pp., maps, illus., tables). Descriptions of the representative vegetation, characteristic climate, and soils for each ecoregion. Some of the common deviations are identified.

† EVALUATION OF FIVE GRANULAR DEPOSITS, McCLELLAND LAKE AREA — Thurber Consultants Ltd. (1981, 6 vols., maps, illus., tables). A physical evaluation of five granular deposits in the vicinity of the proposed Alsands project, intended to determine materials available for various construction uses.

KEY TO AVAILABILITY:

* One copy on request.

† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.

‡ Out of print. May be viewed in the ENR library.

‡ FORAGE INVENTORY OF:

- THE BRAZEAU-PEMBINA STUDY AREA — R.L. Wehrhahn (1981, 97pp., maps, illus., tables)
- THE JEAN D'OR PRAIRIE STUDY AREA — K.W. Bishoff (1981, 71pp., maps, illus., tables)
- THE ROCKY-NORTH SASKATCHEWAN STUDY AREA — J.H. Archibald (1981, 109pp., maps, illus., tables)

Reports and accompanying maps classifying the vegetation of the area to determine annual herbaceous forage.

† PHYSICAL LAND CLASSIFICATION OF:

- THE BERLAND CURRENT REGIONAL PLAN STUDY AREA — N.B. Ferguson (1980, 35pp., maps)
- THE BRAZEAU-PEMBINA STUDY AREA — S.S. Kocaoglu (1980, 39pp., maps)
- THE CACHE-PERCOTTE STUDY AREA — W.S. Tedder (1980, 35pp., maps)
- THE COLD LAKE STUDY AREA — D.J. Sauchyn (1979, 30pp., maps)
- THE GHOST RIVER STUDY AREA — W.S. Tedder (1980, 69pp., maps)
- THE IOSEGUN LAKE STUDY AREA — W.S. Tedder and D.J. Sauchyn (1979, 17pp., maps)
- THE LIVINGSTONE-PORCUPINE STUDY AREA — A.G. Levinsohn and E.W. Karpuk (1980, 53pp., maps)
- THE PEACE RIVER SLOPES STUDY AREA — W.S. Tedder (1981, 84pp., maps, illus., tables)
- THE PEMBINA GRAZING RESERVE AREA — E.W. Karpuk (1979, 17pp., maps, illus.)
- THE ROCHESTER STUDY AREA (PRELIMINARY) — W.S. Tedder, N.B. Ferguson, and E.K. Karpuk (1981, 50pp., maps, tables)
- THE ROCKY MOUNTAIN HOUSE GRAZING RESERVE STUDY AREA — D.J. Sauchyn (1979, 11pp., maps)
- THE SWARTZ LAKE STUDY AREA — K.J. Crockett (1980, 40pp., maps, illus., tables)
- THE WILLMORE-KAKWA AREA — N.B. Ferguson (1980, 56pp., maps, illus.)

A description of the physical landscape including geology, relief and geomorphology, drainage, slope, and soils. These reports can be used in conjunction with Physical Land Classification Maps, available through the Alberta Maps and Air Photo Distribution Centre (see page 2).

† TERRAIN SENSITIVITY CLASSIFICATION METHODOLOGY — K. Crockett and R. Shelford (1981, 112pp., maps, illus., tables). A proposed technique for classifying the landscape into areas of similar inherent sensitivity.

‡ VEGETATION AND FLORA OF THE CARIBOU MOUNTAINS, ALBERTA: A REPORT FOR THE NATURAL AREAS PROGRAM — P. Lee, R. Ellis and P. Achuff (1981, 84pp., maps, illus., tables) A description of the plant communities and flora of this northern Alberta region.

MANAGEMENT PLANS

† BEAR CANYON GRAZING RESERVE LAND USE PLAN (1977, 49pp., maps). An integrated resource management plan for a provincial grazing reserve.

‡ CANMORE CORRIDOR INTEGRATED LAND MANAGEMENT PLAN — C. Walker (1979, 28pp., maps). An integrated land management plan for the public lands in the Canmore Corridor.

† FORT VERMILION GRAZING RESERVE LAND USE PLAN (1977, 82pp., maps). An integrated resource management plan for a provincial grazing reserve.

* INTEGRATED RESOURCE PLAN:

- BEAVERHILL LAKE BACKGROUND INFORMATION (1981, 17pp., maps)
- BEAVERHILL LAKE LAND USE PLAN (1981, 17pp., maps, illus., tables)
- BLACKFOOT GRAZING RESERVE (1980, 30pp., maps)
- PEMBINA GRAZING RESERVE (1981, 43pp., maps, illus., tables)
- ROCKY MOUNTAIN HOUSE GRAZING RESERVE (1980, 41pp., maps)

Integrated resource management plans for provincial grazing reserves.

‡ INTEGRATED RESOURCE PLAN: BLACKFOOT OPERATIONAL DEVELOPMENT (1981, 47pp., maps, illus.). A draft document used for obtaining public input into the planning of the Blackfoot area.

* INTEGRATED RESOURCE PLAN: LOWER PEACE RIVER REGIONAL OVERVIEW (1981, 120pp., maps, illus., tables). An overview of resource activities in the region, and identification of areas suitable for agricultural expansion and therefore more detailed subregional planning.

† INTEGRATED RESOURCE PLANS: PLANNING PROJECTS DIRECTORY (binder, updated). A directory reporting the current status of various interdepartmental planning projects, available to agencies involved in the Integrated Resource Planning Program for Public Lands in Alberta.

† LAND USE PLAN FOR THE BIRCH HILLS AREA — C. Van Waas (1974, 111pp., maps). A biophysical study with mapping and land use recommendations.

† MANNING GRAZING RESERVE LAND USE PLAN (1977, 76pp., maps). An integrated resource management plan for a provincial grazing reserve.

† MEDICINE LAKE GRAZING RESERVE ADDITION LAND USE PLAN (1977, 39pp., maps). An integrated resource management plan for a provincial grazing reserve.

† PEERLESS-GRAHAM LAKES RESOURCE MANAGEMENT PLAN — B. Pinnell and P. Short (1977, 114pp., maps). An integrated resource management plan.

† POLL HAVEN LAND USE PLAN — D. Lloyd (1977, 86pp., maps). An integrated resource management plan.

† SPRING CREEK AREA INTEGRATED RESOURCE MANAGEMENT PLAN (1980, 54pp., maps).

† THREE CREEKS GRAZING RESERVE INTEGRATED LAND USE PLAN (1979, 85pp., maps). An integrated resource management plan for a provincial grazing reserve.

† WAPITI-GRANDE PRAIRIE SAND DUNES INTEGRATED LAND USE MANAGEMENT PLAN (1978, 125pp., maps). An integrated resource management plan.

WILDLIFE

GENERAL

† ANNUAL REPORT TO ALBERTA FISH AND GAME ASSOCIATION CONVENTION: 1981 (1982, 53pp., tables). A summary of activities of the Fish and Wildlife Division of Alberta Energy and Natural Resources for fiscal year 1981-82.

‡ CURRENT PESTICIDE USE IN ALBERTA: FISH AND WILDLIFE CONCERNS AND RECOMMENDATIONS — L.P. Horstman (1976, illus., tables).

† THE IMPACTS OF RECREATION ON FISH AND WILDLIFE WITH EMPHASIS ON KANANASKIS COUNTRY: A LITERATURE REVIEW AND PARTIAL BIBLIOGRAPHY: PLANNING DOCUMENT NO. 4 — B. Cornish, J. Van Camp, and M. McNicholl (1980, 116pp., tables). A discussion of the effect road development and access for recreation might have on habitat and wildlife.

† KANANASKIS COUNTRY FISH AND WILDLIFE BIBLIOGRAPHY: PLANNING DOCUMENT NO. 1 — D.L. Pachal and J. Van Camp (1979, 60pp.). Citations on the fish and wildlife resources and development potential of Kananaskis Country.

‡ OCCURRENCE OF INGESTED LEAD SHOT IN ALBERTA DUCKS: 1977 — H.R. Weaver (1978, 17pp., tables). A study of the mortality of waterfowl from lead poisoning.

† PROCEEDINGS OF THE EIGHTH BIENNIAL PRONGHORN ANTELOPE WORKSHOP: JASPER, ALBERTA, CANADA, May 2-4, 1978 (n.d., 532pp., illus., tables).

‡ PROCEEDINGS OF THE 1979 FISH AND WILDLIFE OFFICER ANNUAL MEETING.

† RECOVERY DISTRIBUTION FROM SUMMER DUCK BANDING IN ALBERTA — H. Weaver, B. Turner, S. Pryor, and J. Allen (1979, 127pp., illus., tables).

HUNTING AND TRAPPING

† COMPULSORY REGISTRATION OF BIG GAME KILLS IN NORTH AMERICA — C. Lynch and H. Carr (1974, 18pp., tables). Results of questionnaires sent to 62 wildlife management agencies regarding the use of compulsory registration.

* ECONOMIC EVALUATION OF ALBERTA ZONE 1 MOOSE HUNTING ACTIVITY — W.S. Pattison (n.d., 62pp., illus., tables). A report measuring the net social benefits and economic impact of hunting.

‡ ENCOUNTERS BETWEEN HUNTERS AND PARASITES OF MOOSE IN ALBERTA — W.M. Samuel (n.d., 21pp., illus., tables). An investigation into the loss of moose meat because of infestations.

‡ A QUESTIONNAIRE SURVEY OF REGISTERED TRAPPERS IN ALBERTA IN 1977 — D.H. Meredith and A.W. Todd (1979, 100pp., graphs, tables). A 1977 survey to determine the characteristics of registered trappers, their problems, needs and expectations, attitudes, and trapping patterns and trends.

† A STUDY OF WINTER COYOTE HUNTING IN ALBERTA WITH EMPHASIS ON USE OF SNOWMOBILES — S.P. Wetmore, C.H. Nellis, and L.B. Keith (n.d., 42pp., illus., tables). Results of a 1967-68 study into the methods and success of hunting coyotes, the coyote survival rate, and the attitudes of farmers, sportspeople, and department staff toward coyote hunting and various hunting methods.

INVENTORIES

† INVENTORY OF NON-GAME MAMMALS IN KANANASKIS COUNTRY: PLANNING DOCUMENT NO. 3 — T.A. Mill and P. Anderson (1980, 72pp., maps, tables). A description of the current status of 46 mammals, and discussion of population dynamics and harvesting.

† A REVIEW OF BIRDS AND THEIR HABITATS IN KANANASKIS COUNTRY: PLANNING DOCUMENT NO. 2 — A.N. Wiseley (1979, 168pp., maps, tables). A report listing all bird species recorded, and the habitat in which they were found.

KEY TO AVAILABILITY:

* One copy on request.

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‡ Out of print. May be viewed in the ENR library.

LAW ENFORCEMENT

‡ AN ANNOTATED BIBLIOGRAPHY ON THE SOCIAL AND BEHAVIORAL ASPECTS OF WILDLIFE LAW ENFORCEMENT — M.J. Melnyk (1978, 40pp.).

‡ BIBLIOGRAPHY OF FORENSIC SCIENCE IN WILDLIFE LAW ENFORCEMENT — ed. M. Wilson (1978, 171pp.).

† FACTORS ASSOCIATED WITH WILDLIFE LAW VIOLATION IN ALBERTA — M.J. Melnyk (1978, 115pp., tables).

‡ HUNTER ATTITUDES TOWARD ALBERTA'S WILDLIFE LAWS AND WILDLIFE OFFICERS — M.J. Melnyk (1977, 28pp., illus., tables). Results of a 1975 study.

MANAGEMENT

‡ ENVIRONMENTAL EFFECTS OF FORESTRY OPERATIONS IN ALBERTA: FISH AND WILDLIFE CONCERNS.

† HABITAT MANAGEMENT AND MANIPULATION FOR WILDLIFE IN KANANASKIS COUNTRY: STRATEGIES AND METHODOLOGY: PLANNING DOCUMENT NO. 7 — A.N. Wiseley (1980, 52pp.).

† METHODOLOGY USED FOR ALBERTA LAND INVENTORY OF FURBEARERS — A.W. Todd (1978, 68pp., illus., tables). The development and nature of the furbearer inventory system adopted by the Alberta government.

* RESPONSES OF COYOTES TO WINTER REDUCTION IN AGRICULTURAL CARRION — A.W. Todd and L.B. Keith (n.d., 32pp., illus., tables). A 1972 to 1974 study evaluating coyote population control by eliminating livestock carrion.

† A REVIEW OF ALBERTA FUR PRODUCTION AND MANAGEMENT: 1920-21 TO 1977-78 — A.W. Todd and L.C. Geisbrecht (1979, 64pp., illus., tables).

‡ A WILDLIFE MANAGEMENT PLAN FOR WILLMORE WILDERNESS PARK — J. Olynyk (1980, 93pp., maps, illus., tables). A description of the flora and fauna and ways it can be retained with industrial and recreational activities in the park.

* WILDLIFE PROJECTS: 1980-81 (1981, 98pp.). A description of management and research projects, including the purpose and publications produced for each.

MISCELLANEOUS

CLIMATE

‡ LIGHTNING MEANS IN ALBERTA: 1972-77 (1979, 7pp., illus.). A summary of the incidence of lightning.

‡ LIGHTNING OVER ALBERTA: MAY-SEPTEMBER:

- 1974
- 1975
- 1976
- 1977
- 1978

A summary of lightning incidence.

† PRECIPITATION MEANS: ALBERTA FORESTRY STATIONS: MAY TO SEPTEMBER 1963-1970 — E.V. Stashko (1971, 32pp., illus., tables). Data on the precipitation of forested areas, and the relationship between amount and local topography.

† PRECIPITATION OVER ALBERTA: MAY-SEPTEMBER:

- 1971
- 1973
- 1974
- 1975

A report analysing and mapping monthly precipitation, cumulative precipitation, and abnormalities.

* PROCEEDINGS OF THE 1980 ANNUAL MEETING OF THE ALBERTA CLIMATOLOGICAL ASSOCIATION — ed. K. Leggat (1980, 56pp.). A report on activities of the association for 1979-80, and the climate-related activities of Alberta agencies.

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